

FIGURE 1.

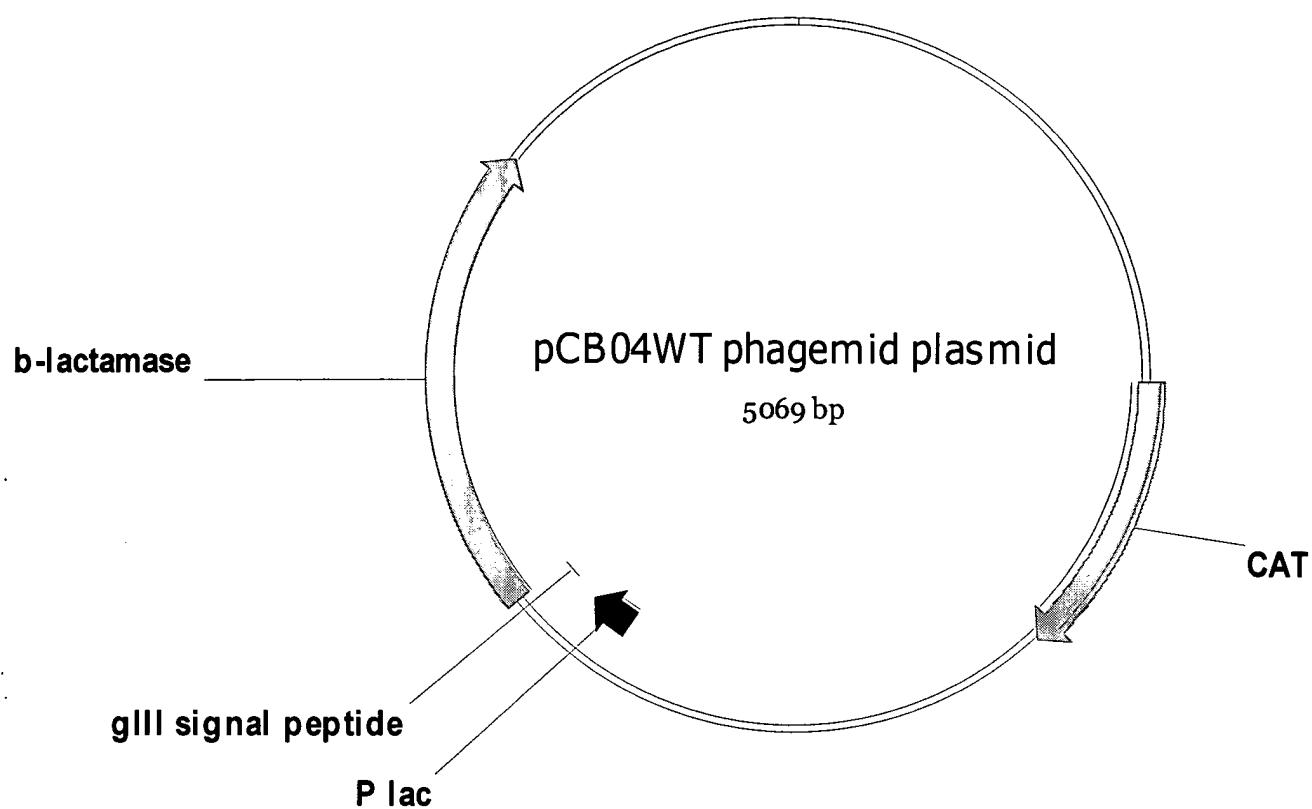


FIGURE 2

FIGURE 3.

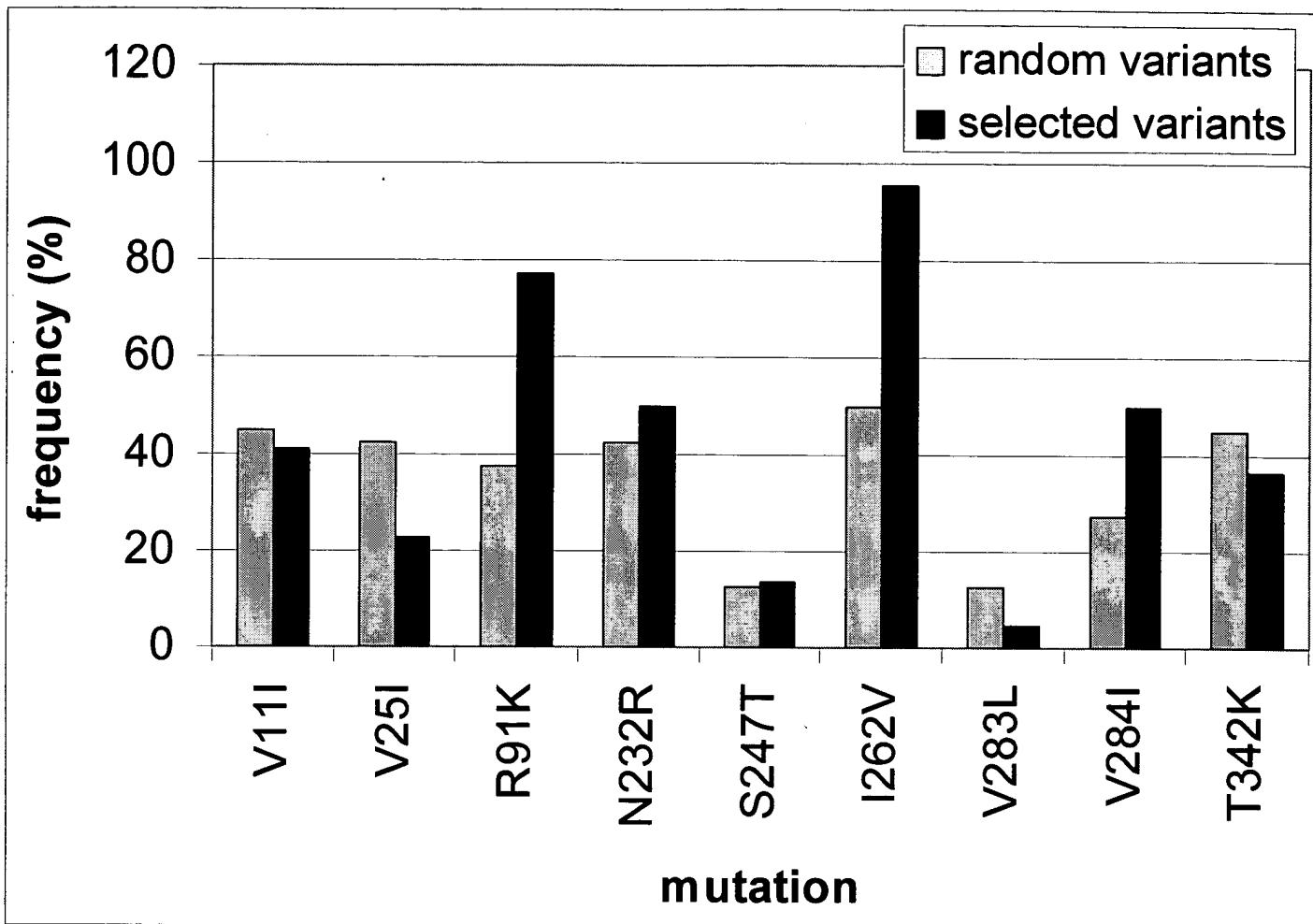


FIGURE 4.

rank	# occur.	parameter	aa change
14	5	0.100	T1A
14	5	0.050	S4T
15	9	0.036	A13D
15	9	0.194	V25I
18	7	0.232	Y41F
18	4	-0.092	F43Y
22	2	-0.219	I65V
23	1	0.367	R91K
24	2	0.756	Q95E
24	10	-0.175	M106L
25	12	-0.102	S130A
25	16	-0.256	Y170F
25	17	0.141	A194S
25	19	-0.021	A208P
25	21	-0.446	Q219E
25	27	0.172	T225S
26	1	-0.198	N226T
26	11	-0.311	V227A
26	23	0.442	N232R
26	24	0.177	S247T
26	26	0.294	I262V
26	28	0.334	V283L
26	31	0.378	V284I
26	34	-0.299	P295A
26	34	-0.062	I334L
26	34	0.107	T342K
26	34	0.471	const. C

FIGURE 5.

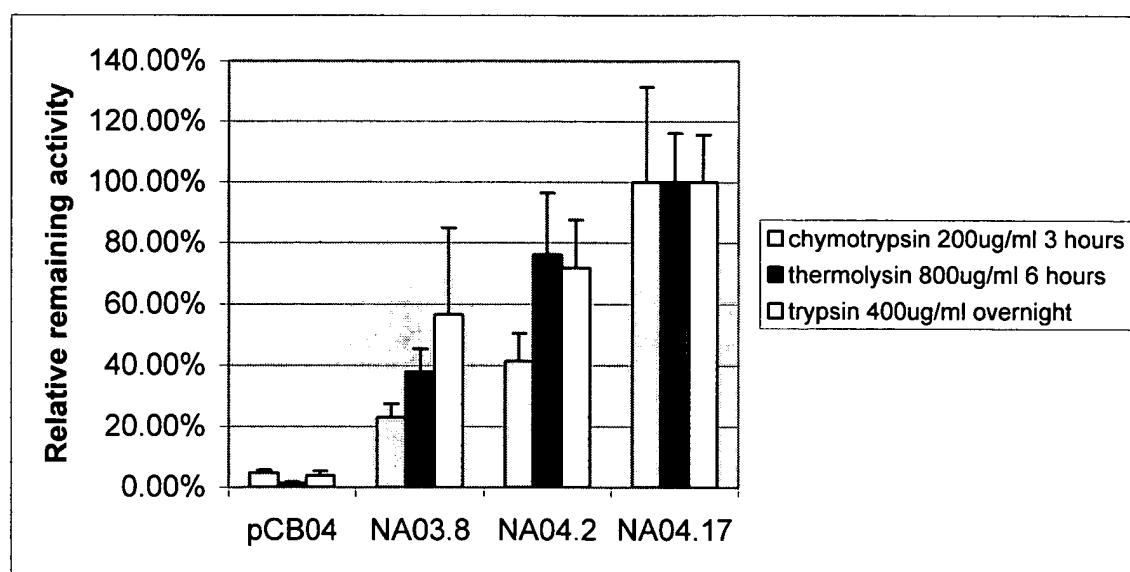


FIGURE 6.

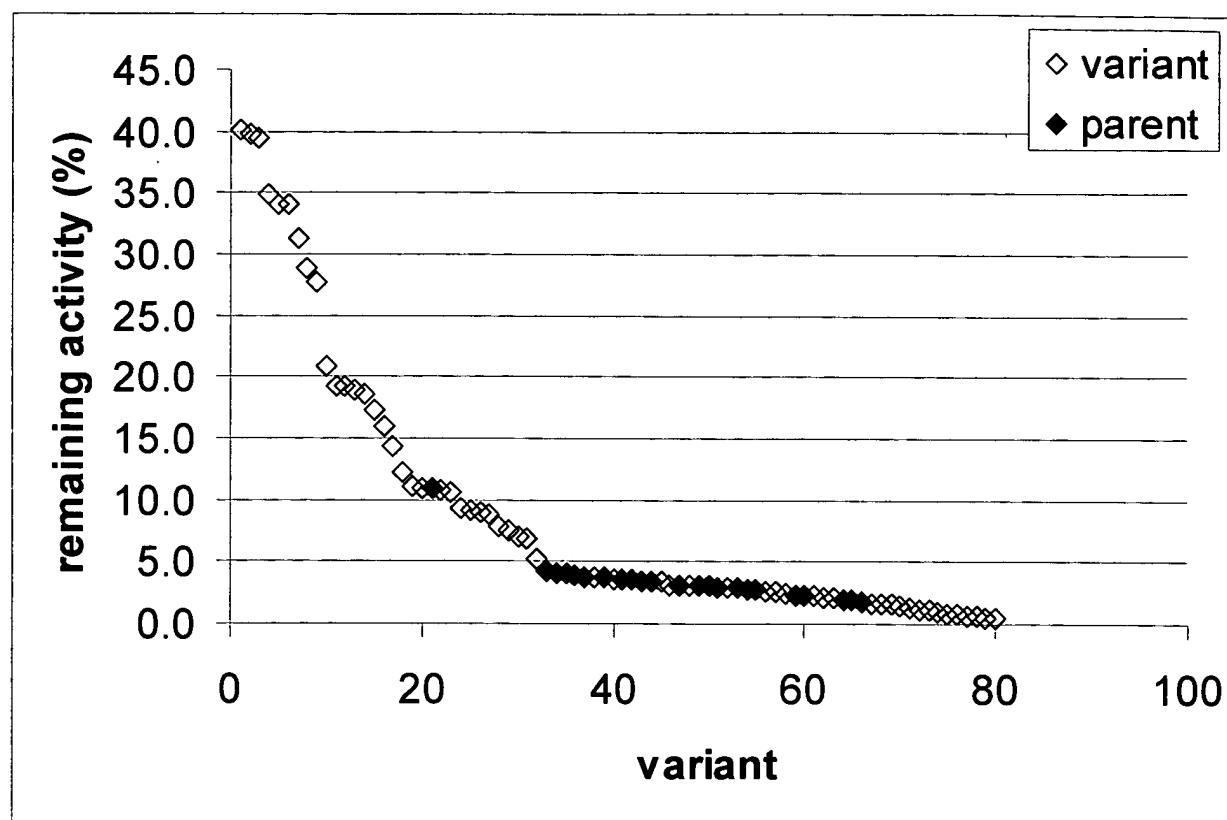


FIGURE 7.

heavy chain:
QvkIqqsgaelvsgtsvklscatasgfmikdsymhwIrqgpeeqglewigwidpengdteyapkfqgkattfdtsntaylqlssltsedtavyycnegtpgtgpyyfdywqgqttvt
vss (SEQ ID NO:2)

linker:
Gggsggggggg (SEQ ID NO:3)

light chain:
Envltqspaimsaspgekvtitcsasssvsymhwfqkpgtspkliystsnlasgvparfsgsgsgtsysltisrmeaedaatyccqrssyplifgagtklelkraat (SEQ
ID NO:4)

BLA:

Lysekqlaevvantitplmkaqsvpgmavaaviyqqkphyytfgkadiaankpvtpqtifelgsiskftfgvlggdaiargeislddavtrywpqltgkqwqgirmldiatytagglpl
qvpdevdnasllrfyqnnwqpqwpkpgttrlyanasiglfgalavkpsgmpyeqamtrvlpkplkdrtwinvpkaeeahyawgyrdgkavrvspgmldaqaygvktnvqdm
anwvmanmapenadasllkgqialaqsrwrigsmyqqlgwemlnwpveantvetsgnvalaplpvaevnppaappvkaswhktgstggfsyvafipekqjivml
antsypparveaayhilealq (SEQ ID NO:5)

FIGURE 8.

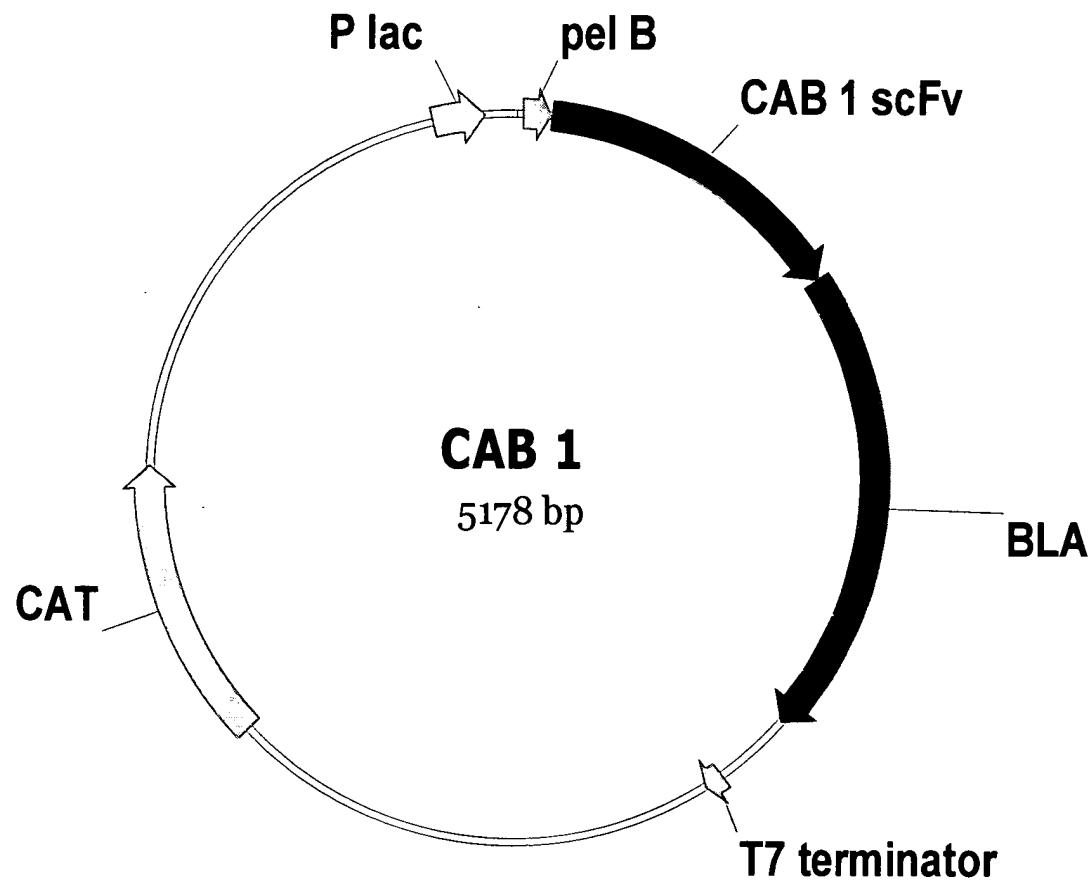


FIGURE 9.

FIGURE 10.

Generation of Stabilized Proteins by
Combinatorial Consensus Mutagenesis
Aehle et al.
SN# Unassigned
Docket No. GC816
Sheet 10 of 13

Translation of CAB1 human consensus	1	(1) QVKLQQSGAEIVRSGTSVKLSCTAGFNIKDSYMHWLQRGPQEGLIEWIGWIDPENGDTYEAPKFQGKATFTDTSNTAY (1) Q KP G TFS V A G	80	(SEQ ID NO: 6)
Translation of CAB1 human consensus	81	(81) IQLSSLTSEDTAVYYCNEGPTGPYFYDFDWGQGTTVVSAGGGGGGGGGGGSENVLQSPAIMSASPGEKVITCSA (81) AR QS P S V QT	160	(SEQ ID NO: 7)
Translation of CAB1 human consensus	161	(161) SSSVSYMMHQQQKPGTSPKLWLYSTSNLASGVPARFGSGSGTYSLTISRMEEADAATYYCQRSSYPLTFGAGTKLELKRAA (161) Y V V T F D	240	(SEQ ID NO: 8)

FIGURE 11.

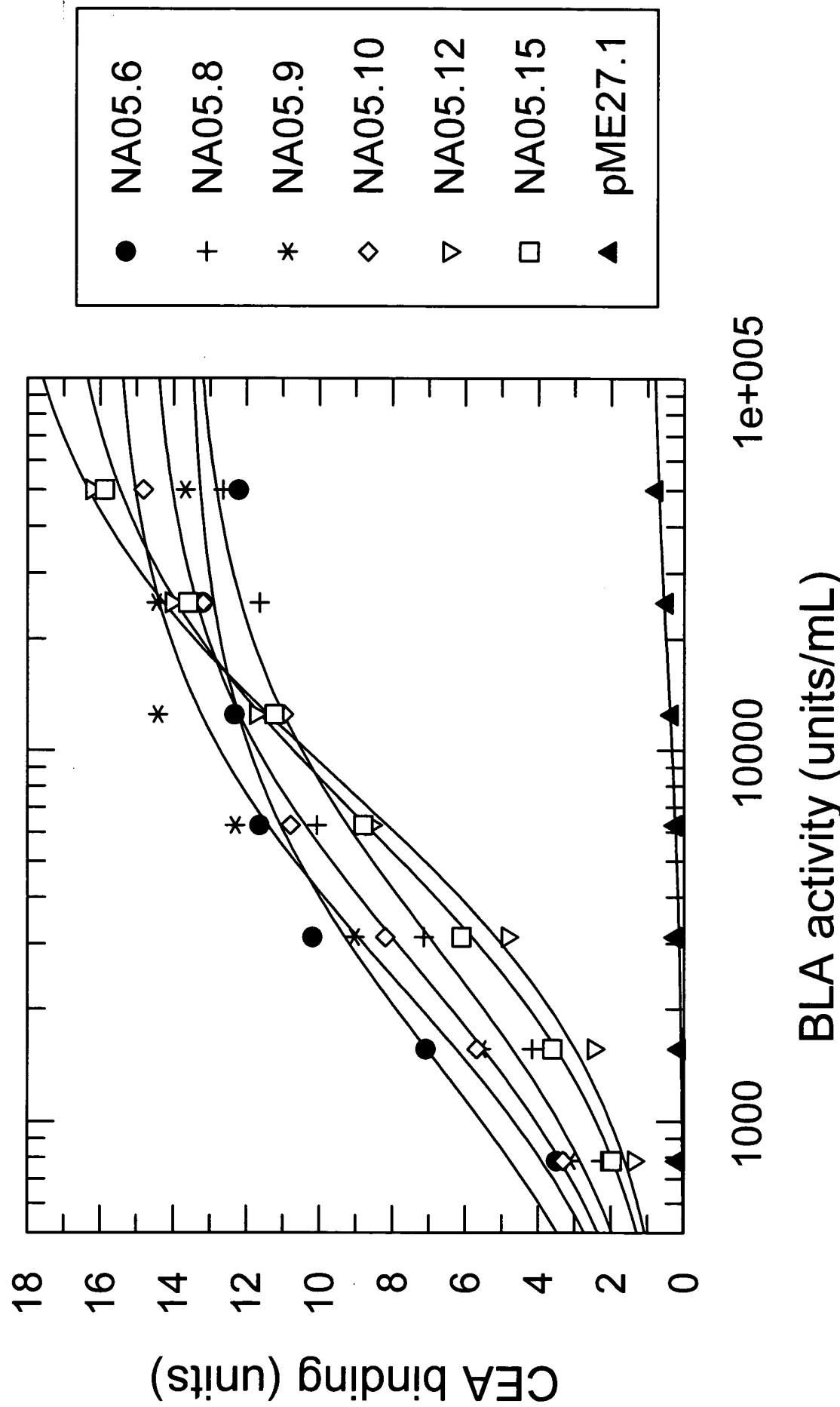


FIGURE 12.

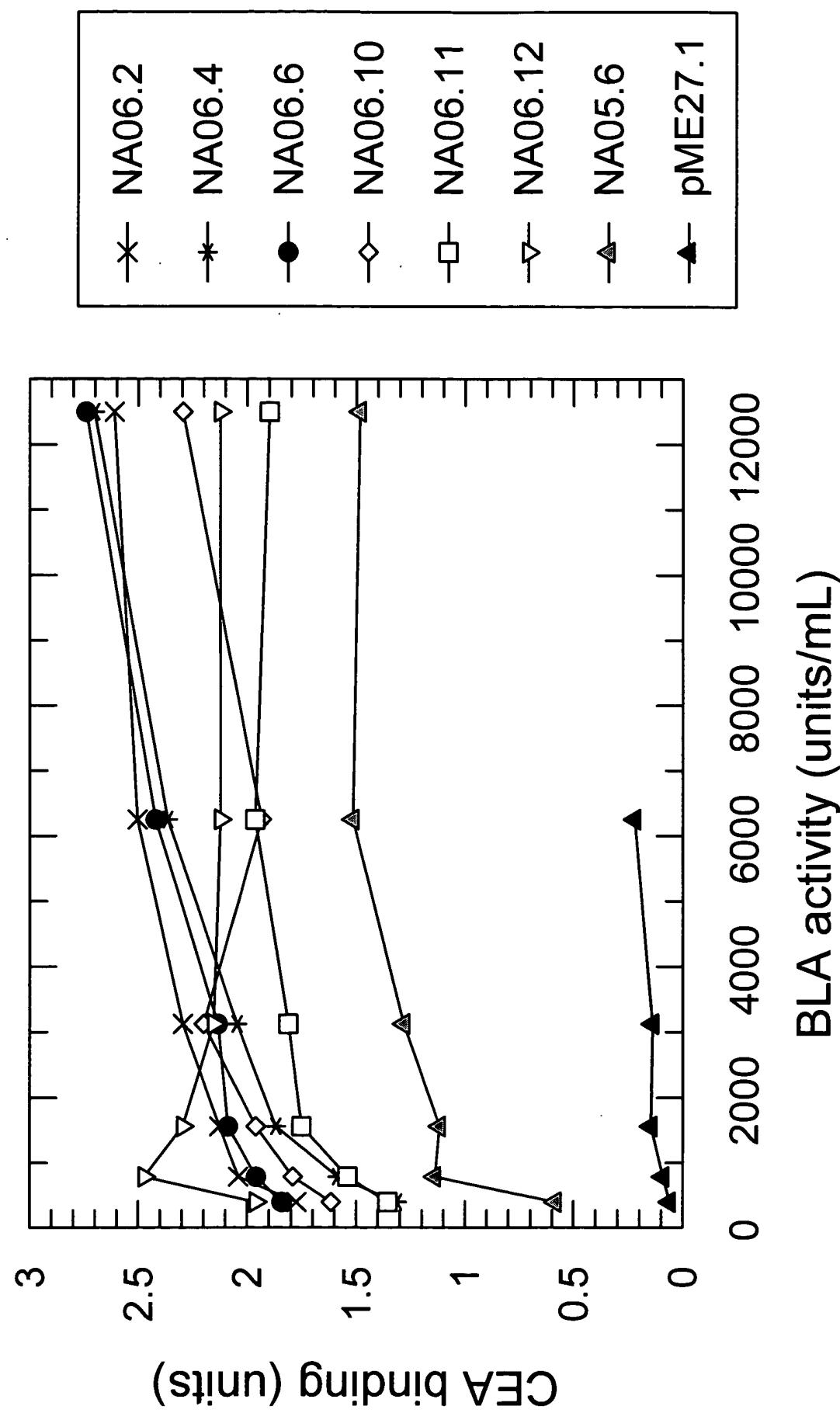


FIGURE 13.

